

Cancer Training Branch

Training and Career Development Opportunities



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Dear Colleague:

We ask that you partner with the National Cancer Institute in marketing our training and career development programs so that together we can reach the broadest possible pool of highly qualified candidates who wish to pursue cancer research careers. Recognizing that diversity can enhance research organizational/institutional effectiveness, we hope that increased marketing will also attract and help retain increasing numbers of women and minorities into the cancer research enterprise. We urge the participants in the cancer research manpower enterprise to work cooperatively and collegially in reaching these common goals. The NCI Cancer Training Branch (CTB) welcomes the opportunity to work in partnership with the scientific and academic community to build a strong, diverse cadre of cancer researchers.

After receiving the advice of hundreds of cancer scientists throughout the nation, in 1999 the NCI launched a strategic plan for training and career development based on the following goals:

1. Emphasize stabilizing the research careers of endangered disciplines critical to the progress of cancer research in the future
2. Focus on strategic career tracks that begin at the predoctoral/postdoctoral levels and continue through the junior faculty and established investigator stages of a career
3. Provide a spectrum of opportunities that rely solely on continuously available, competitive, investigator-initiated concepts (e.g., program announcements) rather than on institute-initiated concepts that require dollar set asides (e.g., Requests for Applications or RFAs).

To assist institutions and departments in advertising NCI funding opportunities in research training and career development, we have compiled the accompanying booklet describing these opportunities. Copies may be obtained by an email request at <http://cancertraining.nci.nih.gov/contactus2.html> (Disregard the statement at the top of the page if you wish to request a training booklet) or by calling 301-496-8580. The booklet describes each funding mechanism (individual or institutional) and the targeted career stage (ranging from pre-doctoral, mentored post-doctoral, junior faculty, independent-junior faculty to established/senior investigators) and career tracks they support. See the next page for a listing of all the funding mechanisms. CTB staff may be contacted for additional information and assistance. Their names and email addresses are cited along with the descriptions of each program they administer. All may be reached by phone at 301-496-8580. Detailed information, including Program Announcements, additional special instructions, and answers to frequently asked questions may be found at the CTB Website: <http://cancer.gov/cancertraining>.

While the programs described in this “training booklet” are available to all eligible applicants, minority scientists/applicants or those who represent a minority-serving institution should also explore “Minority Scientists/Institutions” at the CTB website and determine whether these special programs provide a greater opportunity for development than the primary career tracks described. In addition, individuals working or interested in areas of research that usually are not considered cancer research or that are highly transdisciplinary, should examine the “Transdisciplinary Sciences” (K25) site at <http://grants2.nih.gov/grants/guide/pa-files/PA-99-087.html>.

Thank you in advance for assisting us in this important endeavor. We are confident that through this cooperative effort we can attract and retain the best and brightest candidates for careers in cancer research.

Warm Regards,

Carolyn Strete, Ph. D.
Chief, Cancer Training Branch,
OCTR, OD, NCI
Email: cstrete@nih.gov

NCI Research Training, Career Development and Education Opportunities

Career Stage	Award Type	Mechanism	Program Title (science emphasis & degree requirements)	Direct Cost ¹ Max./yr
Undergraduate, High School & Under	Institutional	1. R25E	Cancer Education Program ²	\$300K
	Institutional	1. T32	NRSA Training Grants (Basic Research)	\$500K ³
		2. R25T	Cancer Education and Career Development Program (Cancer Prevention, Control, Behavioral and Population Sciences)	\$500K
	Individual	3. Suppl.	Minority (administrative) Supplements to T32 grants / R25T grants	\$NA/40K
Mentored Postdoctoral or Junior Faculty	Institutional	1. T32	NRSA Training Grants (Basic research; Ph.D.s & M.D.s)	\$500K ³
		2. R25T	Cancer Education and Career Development Program (Ph.D.s & M.D.s)	\$500K
		3. K12	Clinical Oncology Career Development Program (POR ⁴ ; M.D.s, etc.)	\$700K
	Individual	4. F32	NRSA Fellowship (Basic Research; Ph.D.s & M.D.s)	\$54.3K
		5. K01	Howard Temin Award ⁵ (Basic Research; Ph.D.s & M.D.s)	\$105K
		6. K07	Cancer Prevention, Control, Behavioral and Population Sciences Career Development Award (Ph.D.s & health professional doctorates)	\$105K
		7. K08	Mentored Clinical Scientist Career Development Award (Basic research; health professional doctorates)	\$105K
		8. K23	Mentored Patient-Oriented Research Career Development Award; clinical doctorates	\$105K
		9. K25	Mentored Quantitative Scientist Career Development Award (Ph.D.s)	\$115K
		10. Suppl.	Minority (administrative) supplements to T32 / R25T/ K12 grants	\$52.6/105/105K
Independent/Junior Faculty	Individual	1. K01	Howard Temin Award ² (Basic research; Ph.D.s & M.D.s)	\$125K
		2. K22	NCI Transition Career Development Award (Basic Research/POR/Cancer Prev. & Control (health professional doctorates only & NIH intramural Ph.D.s)	\$125K
Independent/Established (Senior)	Individual	1. K05	NCI Cancer Prevention, Behavioral and Population Sciences Established Investigator Award (Health professional & Ph.D.'s)	\$113K ⁶
		2. K24	Established Investigator Award in Patient-Oriented Research (POR ⁴ , clinical doctorates)	\$113K ⁶
All Career Stages ³	Spec. Institutional	R25E	Cancer Education Grant Program	\$300K ³

¹ Does not include fringe benefits.

² Supports development of new academic curricula, introduction to research experiences for science & pre-med students; workshops, short courses, etc.; and outreach programs to the lay community.

³ May be exceeded with prior NCI permission

⁴ POR=Patient-oriented Research.

⁵ Bridge support for transition from mentored career stage to independence.

⁶ Up to 50% of Federal cap on salary + \$20K in general support costs.

Training and Career Development: <http://cancer.gov/cancertraining/>



Career Track: Basic Science

National Research Service Award (NRSA) Institutional Training Grant-T32

Important Announcements:

NIH Guide: <http://grants1.nih.gov/grants/guide/pa-files/PA-02-109.html>

NCI website: <http://cancertraining.nci.nih.gov/research/basicphd/t32full.html>

Purpose:

To prepare individuals for careers in basic cancer research, clinical cancer research and/or cancer research in the prevention, control, behavioral and population-based sciences.

Eligibility:

- Only domestic, non-profit, non-Federal, public or private institutions may apply to provide research training through the T32 grant mechanism.
- Trainees must be U.S. citizens, non-citizen nationals, or permanent residents of the U.S. at the time of appointment to the training grant.
- Predoctoral trainees must be pursuing the Ph. D. Degree or a comparable research doctoral degree. No more than 25% of the trainees requested in new applications may be predoctoral trainees. Continuing applications should strive to reach this percentage.
- Postdoctoral research training is for individuals who have received a Ph.D., D.V.M., D.D.S., M.D. or comparable doctoral degrees.
- The applicant institution must have a strong research program in the area(s) proposed with requisite staff and facilities. All mentors must have cancer-related or cancer-relevant peer reviewed research support.
- The Principal Investigator of the grant must have the training and experience to appoint trainees and manage the training program according to official NRSA guidelines.

Period of Support: Up to 5 years, renewable.

Allowable Costs:

- Trainee stipends (FY2002):
- Predoc: \$18,156.
- Postdoc: \$31,092 to \$48,852 based on years of relevant experience.
- Trainee travel.
- Training related expenses (FY2002): Predoc \$2,200 Postdoc \$3,850.

NCI Contact: Cynthia Pond (email: cp32z@nih.gov) and Lester Gorelic (email: lg2h@nih.gov)

Review Criteria -T32

- **Distinctive nature of training program.**
- **Background and experience of the PI to provide leadership and coordination.**
- **Quality of the objectives, design and direction of the program.**
- **Track record in achieving objectives (renewal).**
- **Quality of faculty and their cancer research focus: minimum 50% of mentors have research support directly related to cancer remaining faculty have research support that is cancer related.**
- **Recruitment, selection and track record of trainees.**
- **Training resources and environment: institutional commitment to training and quality of facilities, equipment and space.**

Application Receipt Dates

January 10

May 10

September 10

Initial Review Dates

May/June

October/November

February/March

Individual National Research Service Award for Postdoctoral Fellows - F32

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-00-104.html>

NCI website: <http://cancertraining.nci.nih.gov/research/basicphd/f32full.html>

Purpose:

To provide postdoctoral candidates with supervised basic cancer research experience in order to become productive, independent investigators.

Eligibility:

- Candidates must be U.S. citizens, non-citizen nationals, or permanent residents of the U.S. at the time of award.
- Candidates must have an earned research or health professional doctoral degree (PhD, MD, DO, DC, DDS, DVM, OD, DPM, ScD, EngD, DrPH, PharmD, DSW, PsyD, or equivalent from an accredited domestic or foreign institution) before the award can be activated.
- Candidates must identify a sponsoring institution and an individual who will serve as sponsor/mentor.
- Candidates are required to pursue their research training on a full-time basis, devoting at least 40 hours per week to the training program.

Period of Support: Up to 3 years, not renewable.

Allowable Support:

- Trainee stipends (FY2002): \$31,092 to \$48,852 based on years of relevant experience (teaching, internship, residency, clinical duties, studies in a health-related field, and research in industry).
- Institutional Allowance (FY2002) (research supplies, equipment, health insurance, travel)
 - Non-Federal public and private institutions: \$5,500 per year
 - Federal and for-profit institutions: \$4,400 per year
- Tuition and fees.

Special Features:

- Recipients may receive their training at a domestic or foreign institution, in industry, or in a Federal government research facility.
- F32 award is made directly to the applicant and not to a sponsoring institution, when working at a Federal facility or foreign institution. Requires payback (There is a service obligation of 1 month for each month of support during the first 12 months of support. The 13th and subsequent months of support are acceptable payback service.)

NCI Contact: Vera Klaus-Kovtun (email: yk32b@nih.gov)

Review Criteria – F32

- **Candidate’s previous academic and research performance.**
- **Candidate’s potential to become an important contributor to biomedical, behavioral or clinical science.**
- **Quality of the training environment.**
- **Qualifications of the sponsor as a mentor for the proposed research training experience.**
- **Merit of the scientific proposal.**
- **Relationship of the scientific proposal to the candidate’s career plans.**
- **Value of the proposed fellowship experience as it relates to the candidate’s needs in preparation for a career as an independent cancer researcher.**

APPLICATION RECEIPT DATES

April 5
August 5
December 5

INITIAL REVIEW DATES

May/June
October/November
February/March

Mentored Clinical Scientist Development Award - K08

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-00-003.html>

NCI website: <http://cancertraining.nci.nih.gov/research/basicmd/k08full.html>

Purpose:

To support the career development and research training of individuals with a health professional doctoral degree (e.g. M.D.'s, D.O's, D.V.M.'s, Pharm.D.'s, Ph.D.'s in nursing) committed to a career in laboratory or field-based research. This award may also be used to support a laboratory focused career development and research training experience in translational research. (Translational research uses knowledge of human biology to develop and test the feasibility of cancer-relevant interventions in humans and/or determines the biological basis for observations made in individuals with cancer or in populations at risk for cancer.)

Eligibility:

- Applications must be submitted, on behalf of the candidate, by domestic non-Federal organizations, public or private, such as medical schools or other institutions of higher education.
- Candidates must be U.S. citizens, non-citizen nationals, or permanent residents of the U.S. at the time of award.
- Candidates must have a clinical doctoral degree or its equivalent (e.g. MD, DDS, DMD, DO, DVM, PharmD, nursing PhD). Individuals with a clinical Ph.D. degree (e.g., clinical psychology, clinical genetics, pathology) are also eligible. The NCI does not require candidates to have post-graduate clinical training (i.e., Board eligibility).
- Candidates must identify a sponsor/mentor with extensive research experience to oversee and supervise the candidate's research training.
- Candidates must commit a minimum of 75% of full-time professional effort to conducting research and research career development.
- Former principal investigators on NIH Small Grants (R03) or Exploratory/Developmental Grants (R21) are eligible to apply. However, former principal investigators on NIH research project grants (R01), FIRST Awards (R29), comparable career development awards (e.g., K01, K07, K08, K23, non-federal career development awards), subprojects on Program Project Grants (P01) or center grants (P50) and equivalent are NOT ELIGIBLE.

Period of Support: Up to 5 years, not renewable.

Allowable Costs:

- Salary: Up to \$75,000 plus fringe benefits
- Research Development Support: Up to \$30,000 (covers such items as tuition, fees, books, research expenses, travel, statistical and computational services, etc.)

NCI Contacts: Cynthia Pond (email: cp32z@nih.gov) , Lester S. Gorelic (email: lg2h@nih.gov) or
Vera Klaus-Kovtun (email: vk32b@nih.gov)

Review Criteria – K08

Candidate:

- Academic (and clinical) record, potential to become an independent researcher, commitment to a career in research.

Career Development Plan:

- Appropriateness, consistency with prior training and career goals, likelihood of contributing to independence.

Research Plan:

- Scientific and technical merit, appropriateness to stage in career development, and appropriateness for achieving career objectives.

Mentor/Co-mentor:

Scientific qualifications, support for the research project, track record of research support and training, proposed mentoring role.

Environment/Institutional Commitment:

- Adequacy of research facilities and training opportunities, commitment to scientific development of applicant and commitment to provide protected time.

Budget:

- Adequacy of justification in relation to goals and research aims.

APPLICATION RECEIPT DATES

February 1

June 1

October 1

INITIAL REVIEW DATES

May/June

October/November

February/March

NCI Howard Temin Award - K01

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-00-066.html>

NCI website: <http://cancertraining.nci.nih.gov/research/basicphd/k01full.html>

Purpose:

To encourage basic scientists to focus their research on human cancer and to bridge the transition of these scientists from a mentored postdoctoral research environment to an independent cancer research career.

Eligibility:

- Applications must be submitted, on behalf of the candidate, by domestic non-Federal organizations, public or private, such as medical schools or other institutions of higher education.
- Candidates must be U.S. citizens, non-citizen nationals, or permanent residents of the U.S. at the time of award.
- Candidates must have a research or a health professional doctorate or its equivalent, must have completed at least three years of postdoctoral research at the time of award, and must have demonstrated highly productive research activity and potential for establishing an independent research program.
- Candidates must identify an individual who can serve as a mentor for the initial mentored phase.
- Candidates must propose a research and career development plan for establishing an independent basic research program directly relevant to human cancer.
- Candidates must commit a minimum of 75% of full-time professional effort to conducting research and research career development.
- Former principal investigators on NIH Small Grants (R03), Exploratory/ Developmental Grants (R21), or recipients of comparable career development awards (e.g., K07, K08, K23) who are in their last two years of support, are eligible to apply. However, former principal investigators on NIH research project grants (R01), FIRST Awards (R29), subprojects on Program Project Grants (P01) or center grants (P50) and equivalent are NOT ELIGIBLE.

Period of Support: Up to 5 years (1 to 3 years in mentored phase, rest in independent phase), not renewable.

Allowable Costs:

- Salary: Up to \$75,000 plus fringe benefits.
- Research Development Support: Up to \$30,000 during the mentored phase; \$50,000 during the independent phase (covers such items as tuition, fees, books, research expenses, travel, research support services (including personnel and computer time).

NCI Contact: Cynthia Pond (email: cp32z@nih.gov)

Review Criteria K01- (Howard Temin Award)

Candidate:

- Commitment to career in basic cancer research, prior training
- Academic record, recommendations, ability to collaborate.

Career Development Plan:

- Appropriateness, consistency, likelihood of contributing to achievement of independence.

Research Plan:

- Scientific and technical merit, relevance, appropriateness to level of research development and career plan.

Mentor/Co-mentor:

- Qualifications, role, experience, productivity, research support, previous mentoring.

Environment/Institutional Commitment:

- Research facilities, protected time.

Budget:

- Adequacy of justification in relation to goals and research aims.

APPLICATION RECEIPT DATES

February 1

June 1

October 1

INITIAL REVIEW DATES

May/June

October/November

February/March

Transdisciplinary

Mentored Quantitative Research Career Development Award - K25

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-99-087.html>

Purpose:

To encourage research-oriented quantitative scientists and engineers with little or no experience in biology or biomedicine to develop independent research skills and gain experience that will allow them to conduct basic or clinical biomedical, behavioral or bioengineering research, or to play leading roles in multi-disciplinary research teams.

Eligibility:

- Applications must be submitted, on behalf of the candidate, by domestic organizations, public or private, such as research foundations/institutions, commercial entities, medical schools or other institutions of higher education, or Federal laboratories (except for laboratories of the NIH).
- Candidates must be U.S. citizens, non-citizen nationals, or permanent residents of the U.S. at the time of award.
- Candidates must have demonstrated research interests with an advanced degree in a quantitative area of science or engineering: M.S.E.E., Ph.D., D.Sc., etc. Backgrounds appropriate for this award include, but are not limited to: mathematics, statistics, computer science, informatics, physics, chemistry, and engineering.
- Candidates must identify a mentor with extensive behavioral or biomedical research experience.
- Candidates must be willing to spend at least 75 percent of full-time professional effort conducting research career development and basic or clinical research.
- Former principal investigators on NIH Small Grants (R03) or Exploratory/Developmental Grants (R21) are eligible to apply. However, former principal investigators on NIH research project grants (R01), FIRST Awards (R29), comparable career development awards (e.g., K01, K08, K23), subprojects on Program Project Grants (P01) or center grants (P50) and equivalent are NOT ELIGIBLE.

Period of Support: Up to 5 years (with a minimum of 3 years), not renewable.

Allowable Costs:

- Salary: Up to \$75,000 plus fringe benefits.
- Research Development Support: Up to \$40,000 (covers such items as tuition, fees, books, research expenses, travel, research support services (including personnel and computer time).

NCI Contact: Cynthia Pond (email: cp32z@nih.gov)

Review Criteria-K25

Candidate:

- Academic and research record
- Potential to become an independent quantitative biomedical or bioengineering researcher or to play a role in multi-disciplinary research teams.
- Commitment to a career in quantitative biomedical or bioengineering research

Career Development Plan:

- Appropriateness of the proposed didactic and research phases
- Consistency with career goals and prior research training experience
- Likelihood of substantial contribution to career development of candidate
- Quality of the proposed training in responsible conduct of research

Research Plan:

- Scientific and technical merit.
- Appropriateness to stage of research development and for achieving research career development objectives.
- Where appropriate, adequacy of plans for inclusion of minorities, women and children.

Mentor:

- Scientific qualifications.
- Track record of research productivity and research support in basic or clinical biomedical research.
- Adequacy of research facilities and training opportunities
- Quality and appropriateness of environment.
- Institutional commitment to research career development of applicant.

Budget:

- Adequacy of justification in relation to goals and research aims.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

March 1
July 1
November 1

NCI Transition Career Development Award - K22

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-01-134.html>

NCI Website: <http://cancertraining.nci.nih.gov/research/basicmd/k22full.html>

Purpose:

To facilitate the transition of investigators from the mentored to independent stage of their careers in cancer research by providing "protected time" to develop their initial cancer research programs.

Eligibility:

- Applications must be submitted, on behalf of the candidate, by domestic organizations, public or private, such as research foundations/institutions, commercial entities, medical schools or other institutions of higher education, or Federal laboratories.
- Candidates must be U.S. citizens, non-citizen nationals, or permanent residents at the time of award.
- Candidates must be doctorally degreed individuals who have been educated as clinicians (e.g. M.D.s, Oncology Nurses) or as prevention, control and population scientists (e.g., PhDs, DPHs, M.D.s) and are ready to pursue independent careers in cancer research. NIH intramural scientists may apply, but they must be pursuing a career in research directly relevant to human cancer and have at least three years of mentored postdoctoral experience at the time of award.
- At time of application, candidates must be in a "mentored" cancer research postdoctoral position and have completed TWO YEARS OR MORE of research, or be in a suitable independent position for LESS THAN TWO YEARS with continuous previous postdoctoral cancer research training.
- Candidates in a postdoctoral position are eligible to apply for an NCI Transition Career Development Award (K22) WITHOUT an institutional affiliation and may transition to independence at their current institution. If an award is made, candidates will have one year to locate appropriate independent position.
- Candidate must be able to commit a minimum of 75% of professional effort to the research and research career development objectives of the award.
- Candidate must submit an R01 (or equivalent) research grant application to the NIH or equivalent funding organization prior to the end of the second year of support.
- Recipients of K23, K08, Howard Temin or equivalent awards, former or current principal investigators of Small Grants (R03), exploratory/developmental grants (R21) or equivalent grants are eligible, BUT former or current principal investigators on NIH research project grants, (e.g., R01) or equivalent peer reviewed grants or project leaders of subprojects of Program Project Grants (P01) or center grants (P50) and equivalent are NOT ELIGIBLE.

Period of Support: Up to 3 years, not renewable.

Allowable costs:

- Salary: Up to \$75,000 plus fringe benefits.
- Research Development Support: Up to \$50,000 (covers such items as tuition, fees, books, research expenses, travel, research support services (including personnel and computer time).

NCI CONTACT: Cynthia Pond (email: cp32z@nih.gov)

Review Criteria-K22

Candidate:

- Quality of the mentored period of training in cancer research including research productivity.
- Potential for becoming a successful independent investigator during the term of the award.
- Strength of the reference letters.
- If already in an independent position, suitability of the current position to pursue an independent research career.

Research Plan:

- Originality, innovativeness and scientific merit, relative to the experience level of applicant.
- Extent to which plan goes beyond the mentored environment.
- Medical and/or health significance to cancer.
- Where appropriate, adequacy of inclusion plans for minorities, women and children.
- Where appropriate, adequacy of inclusion plans for protection of humans or animals.

Budget:

- Adequacy of justification in relation to goals and research aims.

APPLICATION RECEIPT DATES

February 1

June 1

October 1

INITIAL REVIEW DATES

May/June

October/November

February/March

Cancer Education Grant Program – R25E

Important Announcements:

NIH Guide: <http://grants1.nih.gov/grants/guide/pa-files/PA-00-033.html>
<http://grants.nih.gov/grants/guide/notice-files/NOT-CA-02-009.html>

NCI Website: <http://cancertraining.nci.nih.gov/cancerEd/cancered.html>

Purpose:

To develop and sustain innovative educational approaches that ultimately will contribute to the decrease of cancer incidence, morbidity, and mortality, and to the improvement of the quality of life of cancer survivors.

Eligibility:

- Domestic for profit or non-profit organizations.
- Principal investigator is the program leader and must be an expert in the field of choice.

Period of Support:

- The grant is not renewable if used to develop an academic curriculum for new education approaches which the institution should standardize and assume the responsibility for beyond the 5-year project period. Examples of such programs are education programs in pain management and palliative care, development of nutrition curriculum in academic institutions, etc. In such cases, the applicant institution is expected to continue the program beyond the 5-year project period.
- The grant is renewable for programs designed to stabilize and strengthen activities for the long term (e.g., short-term research experiences to motivate medical, nursing, public health and other health professionals to pursue cancer research careers).

Allowable Costs: Up to \$300,000.

NCI Contact: Maria Agelli (email: ma215e@nih.gov)

General Review Criteria-R25E

Cancer Education Program:

- Novelty.
- Significance to cancer research and/or to the reduction of cancer incidence on morbidity, and mortality, and to improvement of quality of life.
- Qualifications and appropriateness of the Program Leader.
- Qualifications and appropriateness of participating faculty.
- Scientific and technical merit.
- Adequacy to meet short and long-range objectives.
- Merit and adequacy of the evaluation plan to assess program effectiveness.
- When appropriate, adequacy of plans for diffusion or dissemination of knowledge gained.
- When appropriate, adequacy of plans for inclusion of minorities, women and children.
- When appropriate, adequacy of plans for protection of human subjects.

Budget:

- Adequacy of budget and duration of support needed to achieve stated goals and objectives.

Additional Review Criteria for Specific Types of R25E Programs:

For programs involving curriculum development:

- Adequacy of the institutional commitment to continuing the Program after the period of grant support ends.
- For competing renewal applications, adequacy of justification for continued support.

For education programs involving short-term experiences:

- Adequacy of the faculty commitment to the program.
- Adequacy of the research support base and the educational environment.
- Adequacy of the candidate pool size.
- Appropriateness of candidate recruitment plans including plans for recruitment of minority candidates.
- Potential for impacting the participants choice of a research career in cancer.
- Potential for attracting participants back for repeated short-term appointments.
- Adequacy of plans for evaluating the impact of the training experience on the research careers of the participants.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

May/June
October/November
February/March



Career Track:
Clinical Science-Patient-Oriented Research

Institutional-Clinical Oncology Career Development Program – K12

Important Announcements:

NIH Guide: <http://grants1.nih.gov/grants/guide/pa-files/PA-R-00-063.html>

NCI website: <http://cancertraining.nci.nih.gov/research/clinical/k12.html>

Purpose:

To support institutional programs for training medical doctors and doctorally degreed Oncology Registered Nurses pursuing careers in patient-oriented research to communicate and collaborate with basic/behavioral scientists in the design and testing of innovative and hypothesis-based cancer clinical protocols and to manage all phases of cancer clinical trials research. The program is intended to train a clinical scientist, NOT a basic scientist, to participate in translational research.

Eligibility:

- Domestic for profit or non-profit sponsoring institution.
- Principal investigator is the program leader and must be an established investigator.
- Program must use an Advisory Committee for program oversight.
- Program must involve staff and trainees representing at least 2 oncology disciplines.
- Program must have basic AND clinical didactic AND research core requirements that each trainee must satisfy.
- Trainees must be U.S. citizens or non-citizen nationals or must have permanent residency status.
- Trainees must be physicians holding the M.D. or D.O. degree or be doctorally degreed registered nurses and must have completed their clinical training. Physicians must be Board eligible.
- Trainees must have a full-time position and be able to commit 75% of professional effort to the research and career development objectives of the award.

Period of Support: Grant: Up to 5 years, renewable. Trainees: minimum of 2 years, up to 7 years.

Allowable Costs:

- Grant: \$700K cap per year/ 8% indirect costs.
- Trainees: Up to \$75,000/ year for salary, \$30,000/ year for research costs (covers such items as tuition, fees, books, research expenses, travel, statistical and computational services, etc)

NCI Contact: Lester S. Gorelic (email: lg2h@nih.gov)

Review Criteria –K12

Purpose and Objectives:

- Merit of program objectives.
- Adequacy of plan for a multidisciplinary program.
- Consistency with intent of the K12 program.
- Institutional track record of training independent clinician researchers.
- Strength of institutional commitment to provide protected time for trainees.

Core Requirements:

- Merit, appropriateness and adequacy of the basic and clinical research and didactic components.

Research Base/Resources and Facilities/Mentors:

- Adequacy of the funded research base.
- Adequacy of the institutional research infrastructure to support a K12 program.
- Adequacy of candidate pool.
- Research and training track records of program faculty.

Program Management:

- Qualifications of Program Leader.
- Adequacy of strategies for recruiting candidates.
- Adequacy of plans for recruiting minority candidates.
- Adequacy of the selection criteria for candidates.

Advisory Committee:

- Member qualifications and appropriateness for program objectives.
- Merit of plans for providing program oversight and evaluation.

Budget:

- Adequacy for achieving program aims.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

May/June
October/November
February/March

Mentored Patient-Oriented Research Career Development Award – K23

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-00-004.html>

NCI website: <http://cancertraining.nci.nih.gov/research/clinical/k23.html>

Purpose:

To support the training of clinically trained professionals who have made a commitment to focus on patient-oriented research. For the purpose of this award, patient-oriented is research conducted with human subjects (or on material of human origin such as tissues, specimens, and cognitive phenomena) for which an investigator interacts directly with human subjects. This award may also be used to support a patient-oriented research focused career development and research training experience in translational research. (Translational research uses knowledge of human biology to develop and test the feasibility of cancer-relevant interventions in humans AND/OR determines the biological basis for observations made in individuals with cancer or in populations at risk for cancer.)

Eligibility:

- Applications must be submitted, on behalf of the candidate, by domestic non-Federal organizations, public or private, such as medical schools or other institutions of higher education.
- Candidates must be U.S. citizens, non-citizen nationals, or permanent residents of the U.S. at the time of award.
- Candidates must have a clinical doctoral degree or its equivalent (M.D., D.O., Pharm.D., etc.) or a clinical Ph.D. degree (viz., nursing, clinical psychology, clinical genetics).
- Candidates must have completed all their clinical training prior to receiving an award.
- Candidates must identify a sponsor/mentor with extensive research experience to oversee and supervise the candidate's research training.
- Candidates must commit a minimum of 75% of full-time professional effort to conducting research and research career development.
- Former principal investigators on NIH Small Grants (R03) or Exploratory/Developmental Grants (R21) are eligible to apply. However, current or former principal investigators on NIH research project grants (R01), FIRST Awards (R29), comparable career development awards (e.g., K01, K07, K08, K23, non-federal career development awards), subprojects on Program Project Grants (P01) or center grants (P50) and equivalent are NOT ELIGIBLE.

Period of Support: Up to 5 years, not renewable.

Allowable Costs:

- Salary: Up to \$75,000 plus fringe benefits.
- Research Development Support: Up to \$30,000 (covers such items as tuition, fees, books, research expenses, travel, statistical and computational services, etc.)

NCI Contact: Lester S. Gorelic (email: lg2h@nih.gov)

Review Criteria – K23

Candidate:

- Academic (and clinical) record, potential to become an independent clinical researcher, commitment to a career in patient-oriented research.

Career Development Plan:

- Appropriateness, consistency with prior training and career goals, likelihood of contributing to independence.

Training in the Responsible Conduct of Research:

- Quality of the proposed training.

Research Plan:

- Scientific and technical merit, appropriateness to stage of research development and for achieving career development objectives.

Mentor/Co-mentor:

- Scientific qualifications, support for the research project, track record of research support and training, quality of proposed mentoring role.

Environment/Institutional Commitment:

- Adequacy of research facilities and training opportunities, commitment to scientific development of applicant, and commitment to provide protected time.

Budget:

- Adequacy of justification in relation to goals and research aims.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

May/June
October/November
February/March

NCI Established Investigator Award in Patient-Oriented Research K24

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-00-005.html>

NCI website: <http://cancertraining.nci.nih.gov/research/clinical/k24full.html>

Purpose:

To provide clinicians protected time to devote to patient-oriented research and to act as mentors for beginning clinical investigator. For the purpose of this award, patient-oriented research is research conducted with human subjects (or on material of human origin such as tissues, specimens, and cognitive phenomena) for which an investigator interacts directly with human subjects.

Eligibility:

- Applications must be submitted, on behalf of the candidate, by domestic non-Federal organizations, public or private, such as medical schools or other institutions of higher education.
- Candidates must be U.S. citizens, non-citizen nationals, or permanent residents of the U.S. at the time of award.
- Health professional doctoral degree or its equivalent. Such degrees include but are not limited to the M.D., D.O., D.D.S., D.M.D., O.D., Pharm.D., N.D. (Doctor of Naturopathy), as well as doctorally degreed nurses. Individuals holding the Ph.D. degree are eligible if they normally perform clinical duties.
- Must have completed specialty training and obtained the necessary certifications to practice medicine within approximately 15 years of submitting the application.
- Must have active independent support either Federal or private for patient-oriented research as either NIH awards or awards equivalent to NIH peer-reviewed research support at the time of application. This would not include industry support.
- Must have a track record of mentoring junior investigators.
- Able to commit up to 50% (at least 25%) of professional effort to the research and mentoring objectives of the award.
- Commitment of the sponsoring institution to the candidate's career and to providing the required release time.

Period of Support: Up to 5 years, one-time renewable.

Allowable Costs:

- Salary: Up to the maximum legislated salary rate for Federal workers at the time of award and based on actual percent effort, plus fringe benefits.
- Research Development Support: Up to \$25, 000/yr. (covers items such as supplies, equipment and technical personnel for the principal investigator and his/her mentored clinical investigators; travel to research meetings or training; statistical services including personnel and computer time).

NCI Contact: Lester S. Gorelic (email: lg2h@nih.gov)

Review Criteria – K24

Candidate:

- Quality of academic and clinical record including potential for or track record of mentoring.
- Track record of conducting high quality patient-oriented research (POR) and obtaining monetary support for this research.
- Commitment to a continuing career in POR.

Research Plan:

- Scientific and technical merit.
- Appropriateness for training prospective mentees in POR.
- Relevance to applicant's career objectives.
- Adequacy of resources.
- Adequacy for providing additional time to devote to POR.
- Adequacy of inclusion plans for minorities, women and children.

Mentoring Plan:

- Appropriateness for mentoring beginning clinicians in POR and of proposed level of effort commitment.

Environment/Institutional Commitment:

- Adequacy of research facilities and educational opportunities for pursuing POR, commitment to scientific development of applicant, and commitment to provide protected time.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

May/June
October/November
February/March

NCI Transition Career Development Award - K22

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-01-134.html>

NCI Website: <http://cancertraining.nci.nih.gov/research/basicmd/k22full.html>

Purpose:

To facilitate the transition of investigators from the mentored to independent stage of their careers in cancer research by providing "protected time" to develop their initial cancer research programs.

Eligibility:

- Applications must be submitted, on behalf of the candidate, by domestic organizations, public or private, such as research foundations/institutions, commercial entities, medical schools or other institutions of higher education, or Federal laboratories.
- Candidates must be U.S. citizens, non-citizen nationals, or permanent residents of the U.S. at the time of award.
- Candidates must be doctorally degreed individuals who have been educated as clinicians (e.g. M.D.s, Oncology Nurses) or as prevention, control and population scientists (e.g., PhDs, DPHs, M.D.s) and are ready to pursue independent careers in cancer research. NIH intramural scientists may apply, but they must be pursuing a career in research directly relevant to human cancer and have at least three years of mentored postdoctoral experience at the time of award.
- At time of application, candidates must be in a "mentored" cancer research postdoctoral position and have completed TWO YEARS OR MORE of research, or be in a suitable independent position for LESS THAN TWO YEARS with continuous previous postdoctoral cancer research training.
- Candidates must be doctorally degreed individuals who have been educated as clinicians (e.g. M.D.s, Oncology Nurses) or as prevention, control and population scientists (e.g., PhDs, DPHs, M.D.s) and are ready to pursue independent careers in cancer research. NIH intramural scientists may apply, but they must be pursuing a career in research directly relevant to human cancer and have at least three years of mentored postdoctoral experience at the time of award.
- Candidates in a postdoctoral position are eligible to apply for an NCI Transition Career Development Award (K22) WITHOUT an institutional affiliation and may transition to independence at their current institution. If an award is made, candidates will have one year to locate an appropriate independent position.
- Candidate must be able to commit a minimum of 75% of professional effort to the research and research career development objectives of the award.
- Candidate must submit an R01 (or equivalent) research grant application to the NIH or equivalent funding organization prior to the end of the second year of support.
- Recipients of K23 or equivalent awards, former or current principal investigators of Small Grants (R03), developmental grants (R21) or equivalent grants are eligible, BUT former or current principal investigators on NIH research project grants, (e.g., R01) or equivalent peer reviewed grants or project leaders of subprojects of Program Project Grants (P01) or center grants (P50) and equivalent are NOT ELIGIBLE.

Period of Support: Up to 3 years, not renewable.

Allowable Costs:

- Salary: Up to \$75,000 plus fringe benefits.
- Research Development Support: Up to \$50,000 (covers such items as tuition, fees, books, research expenses, travel, research support services (including personnel and computer time)

NCI Contact: Lester Gorelic (email: lg2h@nih.gov)

Review Criteria-K22

Candidate:

- Quality of the mentored period of training in cancer research including research productivity.
- Potential for becoming a successful independent investigator during the term of the award.
- Strength of the reference letters.
- **If already in an independent position:** Suitability of the position to pursue an independent research career.

Research Plan:

- Originality, innovativeness and scientific merit, appropriateness to experience level of applicant.
- Extent to which plan goes beyond the mentored environment.
- Medical and/or health significance to cancer.
- Where appropriate, adequacy of inclusion plans for minorities, women and children.
- Where appropriate, adequacy of plans for protection of humans or animals.

Budget:

- Adequacy of justification in relation to goals and research aims.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

May/June
October/November
February/March

Cancer Education Grant Program – R25E

Important Announcements:

NIH Guide: <http://grants1.nih.gov/grants/guide/pa-files/PA-00-033.html>
<http://grants.nih.gov/grants/guide/notice-files/NOT-CA-02-009.html>

NCI Website: <http://cancertraining.nci.nih.gov/cancerEd/cancered.html>

Purpose:

To develop and sustain innovative educational approaches that ultimately will contribute to the decrease of cancer incidence, morbidity, and mortality, and to the improvement of the quality of life of cancer survivors.

Eligibility:

- Domestic for profit or non-profit organizations.
- Principal investigator is the program leader and must be an expert in the field of choice.

Period of Support:

- The grant is not renewable if used to develop an academic curriculum for new education approaches which the institution should standardize and assume the responsibility for beyond the 5-year project period. Examples of such programs are education programs in pain management and palliative care, development of nutrition curriculum in academic institutions, etc. In such cases, the applicant institution is expected to continue the program beyond the 5-year project period.
- The grant is renewable for programs designed to stabilize and strengthen activities for the long term (e.g., short-term research experiences to motivate medical, nursing, public health and other health professionals to pursue cancer research careers).

Allowable Costs: Up to \$300,000.

NCI Contact: Maria Agelli (email: ma215e@nih.gov)

General Review Criteria-R25E

Cancer Education Program:

- Novelty.
- Significance to cancer research and/or to the reduction of cancer incidence on morbidity, and mortality, and to improvement of quality of life.
- Qualifications and appropriateness of the Program Leader.
- Qualifications and appropriateness of participating faculty.
- Scientific and technical merit.
- Adequacy to meet short and long-range objectives.
- Merit and adequacy of the evaluation plan to assess program effectiveness.
- When appropriate, adequacy of plans for diffusion or dissemination of knowledge gained.
- When appropriate, adequacy of plans for inclusion of minorities, women and children.
- When appropriate, adequacy of plans for protection of human subjects.

Budget:

- Adequacy of budget and duration of support needed to achieve stated goals and objectives.

Additional Review Criteria for Specific Types of R25E Programs:

For programs involving curriculum development:

- Adequacy of the institutional commitment to continuing the Program after the period of grant support ends.
- For competing renewal applications, adequacy of justification for continued support.

For education programs involving short-term experiences:

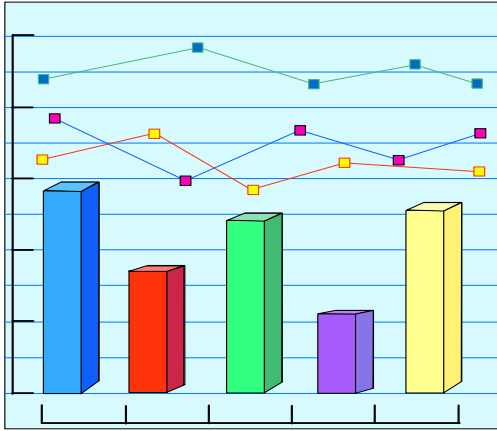
- Adequacy of the faculty commitment to the program.
- Adequacy of the research support base and the educational environment.
- Adequacy of the candidate pool size.
- Appropriateness of candidate recruitment plans including plans for recruitment of minority candidates.
- Potential for impacting the participants choice of a research career in cancer.
- Potential for attracting participants back for repeated short-term appointments.
- Adequacy of plans for evaluating the impact of the training experience on the research careers of the participants.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

May/June
October/November
February/March



Career Track: Cancer Prevention, Control, Behavior, and Population Sciences

Established Investigator Award in Cancer Prevention, Control, and Population Research - K05

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-00-039.html>

NCI website: <http://cancertraining.nci.nih.gov/research/prevention/k05full.html>

Purpose:

To provide established investigators in cancer prevention, control, behavioral, and population sciences protected time for research and mentoring.

Eligibility:

- Domestic for profit or non-profit sponsoring institution.
- Candidates must be U.S. citizens or non-citizen nationals or have permanent residency status.
- Candidates must be established CANCER scientists with a strong track record of publications and successful competition for cancer research support.
- Candidates must have independent research support equivalent to NIH peer-reviewed major grants at the time and during the entire duration of the award.
- Candidates must have a good mentoring record.
- Candidates must be able to commit 25% to 50% of professional effort to the research and mentoring objectives of the award.
- Commitment of the sponsoring institution to the candidate's research career.

Period of Support: Up to 5 years, renewable.

Allowable Costs:

Salary up to the maximum salary rate in effect legislated by Congress for Federal workers at the time of the award, and based on actual percent effort. Up to \$25,000 in direct costs per year for research and development expenses.

NCI Contact: Maria Agelli (email: ma215e@nih.gov)

Review Criteria- K05

Candidate:

- Quality of academic and clinical record, including potential for, or track record of, mentoring of junior investigators.
- Track record of conducting high quality research in cancer prevention, control, behavioral, or population sciences and obtaining monetary support for this research.
- Commitment to a continuing career in cancer prevention, control, behavioral, or population sciences.

Research Plan:

- Scientific and technical merit and significance.
- Appropriateness of proposed level of effort.
- Relevance to applicant's career objectives.
- Adequate resources.
- Adequate provision for additional time to devote to research in cancer prevention, etc.
- Adequate plan for inclusion of minorities, women, and children, if appropriate.

Mentoring Plan:

- Adequate mentoring plan and proposed level of effort commitment.

Environment/Institutional Commitment:

- Adequate research facilities and educational opportunities for pursuing research in cancer prevention, control, behavioral or population sciences, commitment to scientific development of applicant, and commitment to provide protected time.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

May/June
October/November
February/March

Cancer Prevention, Control and Population Sciences Career Development Award – K07

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-01-135.html>

NCI Website: <http://cancertraining.nci.nih.gov/research/prevention/k07.html>

Purpose:

To support the career development and research training of junior investigators committed to the field of cancer prevention, control, behavioral, and population sciences.

Eligibility:

- Domestic for profit or non-profit sponsoring institution.
- Candidates must be U.S. citizens or non-citizen nationals or have permanent residency status.
- Candidates must have a Ph.D. degree, a health professional doctoral degree (M.D., DPH, D.D.S., D.O., D.V.M., Pharm.D., nursing PhD), or equivalent.
- Candidate's mentor must have a strong research and training track record and active research support.
- Candidates must have a full-time research or academic appointment in the sponsoring institution at the time of award.
- Candidate must be able to commit a minimum of 75% of professional effort to the K07 proposal.
- Commitment of the sponsoring institution to the candidate's research career.
- Former or current principal investigators of small grants (e.g., R03s, R21s) are eligible BUT former principal investigators on NIH research project grants (e.g., R01s), comparable career development awards (e.g., K01, K08, K23), subprojects on Program Project Grants (e.g., P01s) or center grants (e.g., P50s) and equivalent are NOT ELIGIBLE.

Period of Support: Up to 5 years, not renewable.

Allowable Costs: Up to \$75,000 in salary plus fringe benefits and up to \$30,000 in research costs.

NCI Contact: Maria Agelli (email: ma215e@nih.gov)

Review Criteria-K07

Candidate:

- Commitment to a research career in CPBPS, quality of prior training and experience, strength of recommendations.

Career Development Plan:

- Appropriateness, consistency with prior training and future career goals, likelihood of contributing to independence.

Training in the Responsible Conduct of Research

- Quality of the proposed training.

Research Plan:

- Scientific and technical merit, appropriateness to facilitate research development and to achieve career development objectives.

Mentor/Co-mentor:

- Scientific qualifications, support for the research project, track record of research support and training, quality of proposed mentoring role.

Environment/Institutional Commitment:

- Adequacy of research facilities and training opportunities, commitment to scientific development of applicant, and commitment to provide protected time.

Budget:

- Adequacy of justification in relation to goals and research aims.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

May/June
October/November
February/March

NCI Transition Career Development Award - K22

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-01-134.html>

NCI website: <http://cancertraining.nci.nih.gov/research/basicmd/k22full.html>

Purpose:

To facilitate the transition of investigators from the mentored to the independent stage of their careers in cancer research by providing "protected time" to develop their initial cancer research programs.

Eligibility:

- Applications must be submitted, on behalf of the candidate, by domestic organizations, public or private, such as research institutions, commercial entities, medical schools or other institutions of higher education, or Federal laboratories.
- Candidates in a postdoctoral position are eligible to apply for an NCI Transition Career Development Award (K22) WITHOUT an institutional affiliation. If an award is made, candidates will have one year to locate appropriate independent position.
- Candidates must be U.S. citizens, non-citizen nationals, or permanent residents of the U.S. at the time of award.
- Candidates must be doctorally degreed individuals who have been educated as clinicians (e.g. M.D.s, Oncology Nurses) or as prevention, control and population scientists (e.g., PhDs, DPHs, M.D.s) and are ready to pursue independent careers in cancer research.
- At time of application, candidates must be in a "mentored" cancer research postdoctoral position and have completed TWO YEARS OR MORE of research, or be in a suitable independent position for LESS THAN TWO YEARS with continuous previous postdoctoral cancer research training.
- Candidate must be able to commit a minimum of 75% of professional effort to the K02 proposal.
- Candidate must submit an R01 (or equivalent) research grant application prior to the end of the second year of support.
- Recipients of K07, K08, Howard Temin or equivalent awards, former or current principal investigators of Small Grants (R03), exploratory/developmental grants (R21) or equivalent grants are eligible, BUT former or current principal investigators of NIH research project grants, (e.g., R01) or equivalent grants project leaders of subprojects of Program Project Grants (P01) or center grants (P50) and equivalent are NOT ELIGIBLE.

Period of Support: Up to 3 years, not renewable.

Allowable Costs:

- Salary: Up to \$75,000 plus fringe benefits.
- Research Development Support: Up to \$50,000.

NCI Contact: Maria Agelli (email: ma215e@nih.gov)

Review Criteria-K22

Candidate:

- Academic (and clinical) record, potential to become an independent researcher, commitment to a career in cancer prevention, control, behavioral, and population sciences.

Career Development Plan:

- Appropriateness, consistency with prior training and career goals, likelihood of contributing to independence.

Research Plan:

- Scientific and technical merit, appropriateness to facilitate career development objectives.

Environment/Institutional Commitment:

- Adequacy of research facilities commitment to scientific development of applicant, and commitment to provide protected time.

Budget

- Adequacy of justification in relation to goals and research aims.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

May/June
October/November
February/March

Transdisciplinary

Mentored Quantitative Research Career Development Award – K25

Important Announcement:

NIH Guide: <http://grants2.nih.gov/grants/guide/pa-files/PA-99-087.html>

Purpose:

To support the career development of junior investigators with quantitative scientific and engineering background who have made a commitment to focus on cancer biomedical research.

Eligibility:

- Domestic for profit or non-profit sponsoring institution.
- Candidates must be U.S. citizens or non-citizen nationals or have permanent residency status.
- Candidates must have an advanced degree in a quantitative area of science or engineering (Ph.D., M.S.E.E., D.Sc., or equivalent).
- Candidate's mentor must have strong behavioral or biomedical experience, strong research and training track record and active research support at the time of candidate's application.
- Candidates must have a full-time research or academic appointment in the sponsoring institution at the time of award.
- Candidate must be able to commit a minimum of 75% of professional effort to the K25 proposal.
- Commitment of the sponsoring institution to the candidate research career.
- Former principal investigators on small grants (e.g., R03s, R21s) are eligible BUT former principal investigators on NIH research project grants (e.g., R01s), comparable career development awards (e.g., K01, K07, K08, K23), subprojects on Program Project Grants (e.g., P01s) or center grants (e.g., P50s) and equivalent are NOT ELIGIBLE..

Period of Support: Up to 5 years, not renewable.

Allowable Costs: Up to \$75,000 in salary plus fringe benefits and up to \$40,000 in research costs.

NCI Contact: Maria Agelli (email: ma215e@nih.gov)

Review Criteria-K25

Candidate:

- Academic and research record.
- Potential to become an independent quantitative biomedical or bioengineering researcher or to play a role in multi-disciplinary research teams.
- Commitment to a career in quantitative biomedical or bioengineering research.

Career Development Plan:

- Appropriateness of the proposed didactic and research phases.
- Consistency with career goals and prior research training experience.
- Likelihood of substantial contribution to career development of candidate.
- Quality of the proposed training in responsible conduct of research.

Research Plan:

- Scientific and technical merit.
- Appropriateness to stage of research development and for achieving research career development objectives.

Mentor:

- Scientific qualifications.
- Track record of research productivity and research support in basic or clinical biomedical research.
- Track record of fostering the career development of junior investigators.

Environment/Institutional Commitment:

- Adequacy of research facilities and training opportunities.
- Institutional commitment to research career development of applicant.

Budget:

- Adequacy of justification in relation to goals and research aims.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

March 1
October/November
February/March

Cancer Education and Career Development Program - R25T

Important Announcements:

NIH Guide: <http://grants.nih.gov/grants/guide/pa-files/PA-00-064.html>
<http://grants.nih.gov/grants/guide/notice-files/NOT-CA-00-022.html>

NCI Website: <http://cancertraining/nci.nih.gov/research/prevention/r25tfull.html>

Purpose:

To support institutional or multi-institutional programs that will train multi- and interdisciplinary pre-doctoral and post-doctoral fellows in highly inter-disciplinary, team-oriented research settings. Conceived for the field of cancer prevention, control, and population sciences, it is used by other highly interdisciplinary fields (e.g., imaging radiology, molecular pathology, molecular epidemiology).

Eligibility:

- Domestic for profit or not-for-profit institutions.
- Principal investigator is the Program leader and must be an established investigator.
- Trainees can be pre-doctoral or post-doctoral. NO minimum percent effort requirement.
- Trainees are U.S. citizens or permanent residents. However, Foreign Nationals can be trained with NCI permission.

Special Requirements:

- Must have a specialized curriculum.
- Must use a multi-disciplinary Advisor committee to select and evaluate progress of trainees.
- All trainees must have more than one mentor.
- Must have ability to accommodate trainees with different scientific backgrounds.
- Program objectives cannot be accomplished using a traditional NRSA Institutional Training (T32) Grant.

Period of Support: Five years, renewable.

Allowable Costs: \$500K/yr direct cost.

- Salaries of Program Leader/Faculty who design and implement specialized curriculum.
- **Postdoctoral:** \$75K salary plus fringes/\$30K research. **Predocctoral:** \$20K salary plus fringes/\$20K research.
- Advertising and recruitment costs.
- Flat 8% indirect costs.

NCI Contact: Maria Agelli (email: ma215e@nih.gov)

Review Criteria – R25T

Adequacy of the Statement of Applicability

Adequacy of the Justification for the Program Need

Purpose and Objectives:

- Merit of program purpose and objectives.

Education Career Development Plan:

- Scientific and technical merit.
- Appropriateness and adequacy of the core requirements.
- Appropriateness and adequacy of the process for evaluating candidate's didactic and research training needs.
- Appropriateness and adequacy for achieving the purpose and objectives of the NCI R25T program.

Specialized Curriculum:

- Merit, uniqueness, appropriateness and adequacy.
- Appropriateness and adequacy of faculty designing and implementing curriculum.
- Appropriateness and adequacy of linkage to other institutional curricula.

Research Base/Resources and Facilities/Mentors:

- Adequacy of the funded research base.
- Availability of an existing highly interactive, multidisciplinary research and didactic training environment.
- Adequacy of the institutional research infrastructure to support an R25T program.
- Adequacy of candidate pool.
- Research and training track records of Program faculty.

Program Leadership/Management:

- Qualifications of Program Leader.
- Adequacy of strategies for recruiting candidates.
- Adequacy of plans for recruiting minority candidates.
- Adequacy of the selection criteria for candidates.
- Appropriateness and adequacy of plans for program evaluation.

Advisory Committee:

- Member qualifications and appropriateness for program objectives.
- Merit of plans for providing program oversight and evaluation.

Budget:

- Adequacy for achieving program aims.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

March 1
October/November
February/March

Cancer Education Grant Program – R25E

Important Announcements:

NIH Guide: <http://grants1.nih.gov/grants/guide/pa-files/PA-00-033.html>
<http://grants.nih.gov/grants/guide/notice-files/NOT-CA-02-009.html>

NCI Website: <http://cancertraining.nci.nih.gov/cancerEd/cancered.html>

Purpose:

To develop and sustain innovative educational approaches that ultimately will contribute to the decrease of cancer incidence, morbidity, and mortality, and to the improvement of the quality of life of cancer survivors.

Eligibility:

- Domestic for profit or non-profit organizations.
- Principal investigator is the program leader and must be an expert in the field of choice.

Period of Support:

- The grant is not renewable if used to develop an academic curriculum for new education approaches which the institution should standardize and assume the responsibility for beyond the 5-year project period. Examples of such programs are education programs in pain management and palliative care, development of nutrition curriculum in academic institutions, etc. In such cases, the applicant institution is expected to continue the program beyond the 5-year project period.
- The grant is renewable for programs designed to stabilize and strengthen activities for the long term (e.g., short-term research experiences to motivate medical, nursing, public health and other health professionals to pursue cancer research careers).

Allowable Costs: Up to \$300,000.

NCI Contact: Maria Agelli (email: ma215e@nih.gov)

General Review Criteria-R25E

Cancer Education Program:

- Novelty.
- Significance to cancer research and/or to the reduction of cancer incidence on morbidity, and mortality, and to improvement of quality of life.
- Qualifications and appropriateness of the Program Leader.
- Qualifications and appropriateness of participating faculty.
- Scientific and technical merit.
- Adequacy to meet short and long-range objectives.
- Merit and adequacy of the evaluation plan to assess program effectiveness.
- When appropriate, adequacy of plans for diffusion or dissemination of knowledge gained.
- When appropriate, adequacy of plans for inclusion of minorities, women and children.
- When appropriate, adequacy of plans for protection of human subjects.

Budget:

- Adequacy of budget and duration of support needed to achieve stated goals and objectives.

Additional Review Criteria for Specific Types of R25E Programs:

For programs involving curriculum development:

- Adequacy of the institutional commitment to continuing the Program after the period of grant support ends.
- For competing renewal applications, adequacy of justification for continued support.

For education programs involving short-term experiences:

- Adequacy of the faculty commitment to the program.
- Adequacy of the research support base and the educational environment.
- Adequacy of the candidate pool size.
- Appropriateness of candidate recruitment plans including plans for recruitment of minority candidates.
- Potential for impacting the participants choice of a research career in cancer.
- Potential for attracting participants back for repeated short-term appointments.
- Adequacy of plans for evaluating the impact of the training experience on the research careers of the participants.

APPLICATION RECEIPT DATES

February 1
June 1
October 1

INITIAL REVIEW DATES

May/June
October/November
February/March